

Date: Sun, 21 Nov 93 22:00:15 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1373
To: Info-Hams

Info-Hams Digest Sun, 21 Nov 93 Volume 93 : Issue 1373

Today's Topics:

 How useful are DSP units in noisy locations?
 License Datapoints
 New "pizza" policy?
 ORBS\$323.MICRO.AMSAT (2 msgs)
 ORBS\$323.OSCAR.AMSAT
 ORBS\$323.WEATH.AMSAT (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 18 Nov 1993 15:42:55 GMT
From: worldbank.org!news@uunet.uu.net
Subject: How useful are DSP units in noisy locations?
To: info-hams@ucsd.edu

Dave,

The reason that we bought a DSP unit for the club station was to address the issue of an electrically noisy environment. (The club shack is located on the top floor of a tall office building in the center of Washington D.C., about a block from the White House - so it's very noisy; RF and QRN.) In some cases, we've found that the DSP unit (NIR-10) can reduce some of the noise, however it does not make a significant difference. If there is a weak station in the noise, we can sometimes make enhance it by "playing" with the controls; however, sometimes the noise can fool the unit, and the result can be a less-intelligible signal! It works okay on strong signals - but then they're usually not a problem.

Unfortunately, a lot of the radio communication that we deal with are pile-ups (because of our call: 4U1WB), and for this, the unit is virtually useless.

Having said this... Most of the posts on this newsgroup that refer to the NIR-10 don't give it a good write up. I haven't any experience with other units, but the Timestep seems to be favoured among other members of the newsgroup.

Good Luck, Darrell (NR3Y)

Date: 18 Nov 1993 15:37:59 GMT
From: noc.near.net!jericho.mc.com!fugu!levine@uunet.uu.net
Subject: License Datapoints
To: info-hams@ucsd.edu

In article nvt@kelly.teleport.com, genew@teleport.com (Gene Wolford) writes:

-->
-->Must be W5YI VEC?
-->Can't be the Association for Retarding Radio Licensing. 8-)
-->
-->73's
-->Gene
-->KB7WIP

Why such an tasteless stab at the ARRL? As a new ham, maybe you haven't had to use such serives as the QSL Bureau, the DXCC Desk, the Amateur Auxilliary, Field Day, etc.... that the ARRL provides. Lighten up.

You may disagree with the league's position on a few issues, but no one can say that they dont provide many many valuable services to the Ham community.

What is meant by "retarded radio licensing" anyway?

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-----FTAC
Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP

levine@mc.com <--Internet email Phone(508) 256-1300 x247
kd1gg@wa1phy.ma <--Packet Mail FAX(508) 256-3599

Date: 21 Nov 1993 05:43:28 -0500
From: news2.uunet.ca!ukma!n-f-m@uunet.uu.net
Subject: New "pizza" policy?
To: info-hams@ucsd.edu

Is this a joke?
If not, can someone explain the change?
Thanks.

Date: 19 Nov 93 13:40:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$323.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-323.D
Orbital Elements 323.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX November 19, 1993
BID: \$ORBS-323.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 93320.70053268
Element set: 912
Inclination: 98.6062 deg
RA of node: 43.2321 deg
Eccentricity: 0.0011712
Arg of perigee: 93.9046 deg
Mean anomaly: 266.3482 deg
Mean motion: 14.29803677 rev/day
Decay rate: 7.1e-07 rev/day^2
Epoch rev: 19922
Checksum: 290

Satellite: A0-16
Catalog number: 20439
Epoch time: 93320.27451247
Element set: 712

Inclination: 98.6124 deg
RA of node: 43.8287 deg
Eccentricity: 0.0012274
Arg of perigee: 95.5349 deg
Mean anomaly: 264.7257 deg
Mean motion: 14.29860785 rev/day
Decay rate: 6.4e-07 rev/day^2
Epoch rev: 19917
Checksum: 328

Satellite: D0-17

Catalog number: 20440
Epoch time: 93320.66928486
Element set: 712
Inclination: 98.6144 deg
RA of node: 44.4763 deg
Eccentricity: 0.0012250
Arg of perigee: 94.2945 deg
Mean anomaly: 265.9628 deg
Mean motion: 14.29997894 rev/day
Decay rate: 6.0e-07 rev/day^2
Epoch rev: 19924
Checksum: 339

Satellite: W0-18

Catalog number: 20441
Epoch time: 93320.22118847
Element set: 713
Inclination: 98.6142 deg
RA of node: 44.0490 deg
Eccentricity: 0.0012764
Arg of perigee: 95.8251 deg
Mean anomaly: 264.4402 deg
Mean motion: 14.29975696 rev/day
Decay rate: 5.7e-07 rev/day^2
Epoch rev: 19918
Checksum: 313

Satellite: L0-19

Catalog number: 20442
Epoch time: 93320.70317511
Element set: 712
Inclination: 98.6151 deg
RA of node: 44.7345 deg
Eccentricity: 0.0013139
Arg of perigee: 93.7468 deg
Mean anomaly: 266.5215 deg
Mean motion: 14.30068015 rev/day

Decay rate: 6.1e-07 rev/day^2
Epoch rev: 19926
Checksum: 285

Satellite: UO-22

Catalog number: 21575
Epoch time: 93320.68042724
Element set: 412
Inclination: 98.4578 deg
RA of node: 34.2356 deg
Eccentricity: 0.0006986
Arg of perigee: 200.1876 deg
Mean anomaly: 159.9027 deg
Mean motion: 14.36865218 rev/day
Decay rate: 1.05e-06 rev/day^2
Epoch rev: 12256
Checksum: 307

Satellite: K0-23

Catalog number: 22077
Epoch time: 93320.59051504
Element set: 309
Inclination: 66.0900 deg
RA of node: 5.1031 deg
Eccentricity: 0.0005093
Arg of perigee: 341.0856 deg
Mean anomaly: 18.9960 deg
Mean motion: 12.86281800 rev/day
Decay rate: .00000000 rev/day^2
Epoch rev: 5944
Checksum: 250

Satellite: A0-27

Catalog number: 22825
Epoch time: 93320.66241511
Element set: 211
Inclination: 98.6771 deg
RA of node: 33.3777 deg
Eccentricity: 0.0009303
Arg of perigee: 106.2143 deg
Mean anomaly: 254.0076 deg
Mean motion: 14.27590086 rev/day
Decay rate: 7.0e-07 rev/day^2
Epoch rev: 736
Checksum: 275

Satellite: IO-26

Catalog number: 22826

Epoch time: 93320.65872634
Element set: 212
Inclination: 98.6768 deg
RA of node: 33.3808 deg
Eccentricity: 0.0009869
Arg of perigee: 107.8468 deg
Mean anomaly: 252.3794 deg
Mean motion: 14.27692506 rev/day
Decay rate: 7.3e-07 rev/day^2
Epoch rev: 736
Checksum: 337

Satellite: K0-25

Catalog number: 22830
Epoch time: 93319.73628661
Element set: 212
Inclination: 98.5788 deg
RA of node: 31.9792 deg
Eccentricity: 0.0012486
Arg of perigee: 82.0123 deg
Mean anomaly: 278.2466 deg
Mean motion: 14.28016160 rev/day
Decay rate: 6.4e-07 rev/day^2
Epoch rev: 723
Checksum: 301

/EX

Date: 21 Nov 93 20:04:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$323.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-323.D
Orbital Elements 323.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH, TX November 19, 1993
BID: \$ORBS-323.D
TO ALL RADIO AMATEURS BT

Satellite: U0-14
Catalog number: 20437
Epoch time: 93320.70053268
Element set: 912
Inclination: 98.6062 deg

RA of node: 43.2321 deg
Eccentricity: 0.0011712
Arg of perigee: 93.9046 deg
Mean anomaly: 266.3482 deg
Mean motion: 14.29803677 rev/day
Decay rate: 7.1e-07 rev/day^2
Epoch rev: 19922
Checksum: 290

Satellite: A0-16
Catalog number: 20439
Epoch time: 93320.27451247
Element set: 712
Inclination: 98.6124 deg
RA of node: 43.8287 deg
Eccentricity: 0.0012274
Arg of perigee: 95.5349 deg
Mean anomaly: 264.7257 deg
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Decay rate: 6.4e-07 rev/day^2
Epoch rev: 19917
Checksum: 328

Satellite: D0-17
Catalog number: 20440
Epoch time: 93320.66928486
Element set: 712
Inclination: 98.6144 deg
RA of node: 44.4763 deg
Eccentricity: 0.0012250
Arg of perigee: 94.2945 deg
Mean anomaly: 265.9628 deg
Mean motion: 14.29997894 rev/day
Decay rate: 6.0e-07 rev/day^2
Epoch rev: 19924
Checksum: 339

Satellite: W0-18
Catalog number: 20441
Epoch time: 93320.22118847
Element set: 713
Inclination: 98.6142 deg
RA of node: 44.0490 deg
Eccentricity: 0.0012764
Arg of perigee: 95.8251 deg
Mean anomaly: 264.4402 deg
Mean motion: 14.29975696 rev/day
Decay rate: 5.7e-07 rev/day^2

Epoch rev: 19918
Checksum: 313

Satellite: L0-19
Catalog number: 20442
Epoch time: 93320.70317511
Element set: 712
Inclination: 98.6151 deg
RA of node: 44.7345 deg
Eccentricity: 0.0013139
Arg of perigee: 93.7468 deg
Mean anomaly: 266.5215 deg
Mean motion: 14.30068015 rev/day
Decay rate: $6.1e-07$ rev/day²
Epoch rev: 19926
Checksum: 285

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Catalog number: 21575
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Element set: 412
Inclination: 98.4578 deg
RA of node: 34.2356 deg
Eccentricity: 0.0006986
Arg of perigee: 200.1876 deg
Mean anomaly: 159.9027 deg
Mean motion: 14.36865218 rev/day
Decay rate: $1.05e-06$ rev/day²
Epoch rev: 12256
Checksum: 307

Satellite: K0-23
Catalog number: 22077
Epoch time: 93320.59051504
Element set: 309
Inclination: 66.0900 deg
RA of node: 5.1031 deg
Eccentricity: 0.0005093
Arg of perigee: 341.0856 deg
Mean anomaly: 18.9960 deg
Mean motion: 12.86281800 rev/day
Decay rate: $.00000000$ rev/day²
Epoch rev: 5944
Checksum: 250

Satellite: A0-27
Catalog number: 22825
Epoch time: 93320.66241511

Element set: 211
Inclination: 98.6771 deg
RA of node: 33.3777 deg
Eccentricity: 0.0009303
Arg of perigee: 106.2143 deg
Mean anomaly: 254.0076 deg
Mean motion: 14.27590086 rev/day
Decay rate: 7.0e-07 rev/day^2
Epoch rev: 736
Checksum: 275

Satellite: IO-26

Catalog number: 22826
Epoch time: 93320.65872634
Element set: 212
Inclination: 98.6768 deg
RA of node: 33.3808 deg
Eccentricity: 0.0009869
Arg of perigee: 107.8468 deg
Mean anomaly: 252.3794 deg
Mean motion: 14.27692506 rev/day
Decay rate: 7.3e-07 rev/day^2
Epoch rev: 736
Checksum: 337

Satellite: KO-25

Catalog number: 22830
Epoch time: 93319.73628661
Element set: 212
Inclination: 98.5788 deg
RA of node: 31.9792 deg
Eccentricity: 0.0012486
Arg of perigee: 82.0123 deg
Mean anomaly: 278.2466 deg
Mean motion: 14.28016160 rev/day
Decay rate: 6.4e-07 rev/day^2
Epoch rev: 723
Checksum: 301

/EX

Date: 21 Nov 93 20:01:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$323.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-323.0
Orbital Elements 323.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH, TX November 19, 1993
BID: \$ORBS-323.0
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 93321.57691393
Element set: 211
Inclination: 27.1956 deg
RA of node: 355.7539 deg
Eccentricity: 0.6019652
Arg of perigee: 131.0023 deg
Mean anomaly: 299.1524 deg
Mean motion: 2.05880635 rev/day
Decay rate: -1.12e-06 rev/day²
Epoch rev: 7841
Checksum: 293

Satellite: UO-11
Catalog number: 14781
Epoch time: 93320.59791365
Element set: 612
Inclination: 97.7971 deg
RA of node: 340.1743 deg
Eccentricity: 0.0010901
Arg of perigee: 227.3657 deg
Mean anomaly: 132.6634 deg
Mean motion: 14.69084435 rev/day
Decay rate: 2.24e-06 rev/day²
Epoch rev: 51909
Checksum: 310

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 93320.53837545
Element set: 812
Inclination: 82.9209 deg
RA of node: 126.0240 deg
Eccentricity: 0.0010352
Arg of perigee: 256.4589 deg
Mean anomaly: 103.5413 deg
Mean motion: 13.72326438 rev/day
Decay rate: 6.1e-07 rev/day²
Epoch rev: 32074

Checksum: 277

Satellite: A0-13

Catalog number: 19216

Epoch time: 93315.34314830

Element set: 813

Inclination: 57.8997 deg

RA of node: 284.7483 deg

Eccentricity: 0.7226538

Arg of perigee: 327.9276 deg

Mean anomaly: 3.4613 deg

Mean motion: 2.09719999 rev/day

Decay rate: $-5.3e-07$ rev/day²

Epoch rev: 4143

Checksum: 336

Satellite: F0-20

Catalog number: 20480

Epoch time: 93310.07362541

Element set: 607

Inclination: 99.0217 deg

RA of node: 139.2984 deg

Eccentricity: 0.0541030

Arg of perigee: 125.0547 deg

Mean anomaly: 240.2545 deg

Mean motion: 12.83221816 rev/day

Decay rate: $-5.0e-08$ rev/day²

Epoch rev: 17551

Checksum: 267

Satellite: A0-21

Catalog number: 21087

Epoch time: 93320.47796564

Element set: 368

Inclination: 82.9418 deg

RA of node: 300.1208 deg

Eccentricity: 0.0034449

Arg of perigee: 319.1873 deg

Mean anomaly: 40.6687 deg

Mean motion: 13.74528168 rev/day

Decay rate: $8.4e-07$ rev/day²

Epoch rev: 14036

Checksum: 318

Satellite: RS-12/13

Catalog number: 21089

Epoch time: 93317.61990766

Element set: 612

Inclination: 82.9233 deg
RA of node: 171.3110 deg
Eccentricity: 0.0029494
Arg of perigee: 351.2997 deg
Mean anomaly: 8.7626 deg
Mean motion: 13.74029180 rev/day
Decay rate: 4.0e-08 rev/day^2
Epoch rev: 13904
Checksum: 305

Satellite: ARSENE
Catalog number: 22654
Epoch time: 93319.82294071
Element set: 209
Inclination: 1.4256 deg
RA of node: 113.1022 deg
Eccentricity: 0.2930832
Arg of perigee: 161.7997 deg
Mean anomaly: 211.8626 deg
Mean motion: 1.42202608 rev/day
Decay rate: -5.2e-07 rev/day^2
Epoch rev: 272
Checksum: 263

/EX

Date: 19 Nov 93 13:44:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$323.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-323.W
Orbital Elements 323.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX November 19, 1993
BID: \$ORBS-323.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 93321.67817478
Element set: 612
Inclination: 99.0821 deg
RA of node: 4.3682 deg
Eccentricity: 0.0015882

Arg of perigee: 95.7490 deg
Mean anomaly: 264.5523 deg
Mean motion: 14.13562457 rev/day
Decay rate: 1.05e-06 rev/day^2
Epoch rev: 46046
Checksum: 314

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 93315.75032400
Element set: 509
Inclination: 98.5140 deg
RA of node: 326.3695 deg
Eccentricity: 0.0012248
Arg of perigee: 244.0314 deg
Mean anomaly: 115.9574 deg
Mean motion: 14.24842726 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 37164
Checksum: 297

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 93319.86072672
Element set: 211
Inclination: 82.5421 deg
RA of node: 78.2816 deg
Eccentricity: 0.0017893
Arg of perigee: 61.8037 deg
Mean anomaly: 298.4910 deg
Mean motion: 13.84697554 rev/day
Decay rate: 6.5e-07 rev/day^2
Epoch rev: 29283
Checksum: 334

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 93319.83299665
Element set: 211
Inclination: 82.5384 deg
RA of node: 114.6617 deg
Eccentricity: 0.0017926
Arg of perigee: 77.8342 deg
Mean anomaly: 282.4811 deg
Mean motion: 13.16962335 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 25517
Checksum: 319

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 93315.67695101
Element set: 409
Inclination: 99.1508 deg
RA of node: 294.5292 deg
Eccentricity: 0.0012515
Arg of perigee: 27.3413 deg
Mean anomaly: 332.8509 deg
Mean motion: 14.12931327 rev/day
Decay rate: 1.65e-06 rev/day^2
Epoch rev: 26450
Checksum: 291

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 93320.51300057
Element set: 212
Inclination: 82.5191 deg
RA of node: 313.4772 deg
Eccentricity: 0.0015680
Arg of perigee: 100.7230 deg
Mean anomaly: 259.5690 deg
Mean motion: 13.84349177 rev/day
Decay rate: 4.5e-07 rev/day^2
Epoch rev: 23826
Checksum: 288

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 93320.32104910
Element set: 913
Inclination: 82.5525 deg
RA of node: 57.5423 deg
Eccentricity: 0.0017403
Arg of perigee: 95.7518 deg
Mean anomaly: 264.5640 deg
Mean motion: 13.16021908 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 19511
Checksum: 262

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 93320.64092393
Element set: 712
Inclination: 82.5491 deg

RA of node: 17.2997 deg
Eccentricity: 0.0016711
Arg of perigee: 28.5586 deg
Mean anomaly: 331.6512 deg
Mean motion: 13.84181803 rev/day
Decay rate: 1.5e-07 rev/day^2
Epoch rev: 17121
Checksum: 291

Satellite: FY-1/2

Catalog number: 20788
Epoch time: 93314.27490495
Element set: 816
Inclination: 98.8528 deg
RA of node: 336.2622 deg
Eccentricity: 0.0014224
Arg of perigee: 264.8255 deg
Mean anomaly: 95.1288 deg
Mean motion: 14.01329924 rev/day
Decay rate: 3.52e-06 rev/day^2
Epoch rev: 16304
Checksum: 314

Satellite: MET-2/20

Catalog number: 20826
Epoch time: 93320.47980517
Element set: 711
Inclination: 82.5249 deg
RA of node: 315.2181 deg
Eccentricity: 0.0011921
Arg of perigee: 288.0238 deg
Mean anomaly: 71.9627 deg
Mean motion: 13.83563968 rev/day
Decay rate: 5.2e-07 rev/day^2
Epoch rev: 15834
Checksum: 308

Satellite: MET-3/4

Catalog number: 21232
Epoch time: 93320.51833216
Element set: 615
Inclination: 82.5409 deg
RA of node: 319.9466 deg
Eccentricity: 0.0013471
Arg of perigee: 2.5209 deg
Mean anomaly: 357.5653 deg
Mean motion: 13.16456371 rev/day
Decay rate: 4.3e-07 rev/day^2

Epoch rev: 12337
Checksum: 280

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 93315.68793624
Element set: 816
Inclination: 98.6427 deg
RA of node: 343.0215 deg
Eccentricity: 0.0013434
Arg of perigee: 143.1680 deg
Mean anomaly: 217.0407 deg
Mean motion: 14.22331177 rev/day
Decay rate: 1.76e-06 rev/day²
Epoch rev: 12961
Checksum: 285

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 93320.38880675
Element set: 612
Inclination: 82.5551 deg
RA of node: 267.0163 deg
Eccentricity: 0.0014334
Arg of perigee: 12.2322 deg
Mean anomaly: 347.9178 deg
Mean motion: 13.16825934 rev/day
Decay rate: 4.3e-07 rev/day²
Epoch rev: 10845
Checksum: 293

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 93320.66678128
Element set: 211
Inclination: 82.5521 deg
RA of node: 14.8526 deg
Eccentricity: 0.0023798
Arg of perigee: 100.3379 deg
Mean anomaly: 260.0455 deg
Mean motion: 13.82991168 rev/day
Decay rate: 3.3e-07 rev/day²
Epoch rev: 1071
Checksum: 288

/EX

Date: 21 Nov 93 20:08:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$323.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-323.W
Orbital Elements 323.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX November 19, 1993
BID: \$ORBS-323.W
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Satellite: NOAA-9
Catalog number: 15427
Epoch time: 93321.67817478
Element set: 612
Inclination: 99.0821 deg
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Inclination: 98.5140 deg
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Eccentricity: 0.0012248
Arg of perigee: 244.0314 deg
Mean anomaly: 115.9574 deg
Mean motion: 14.24842726 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 37164
Checksum: 297

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 93319.86072672
Element set: 211
Inclination: 82.5421 deg
RA of node: 78.2816 deg

Eccentricity: 0.0017893
Arg of perigee: 61.8037 deg
Mean anomaly: 298.4910 deg
Mean motion: 13.84697554 rev/day
Decay rate: 6.5e-07 rev/day^2
Epoch rev: 29283
Checksum: 334

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 93319.83299665
Element set: 211
Inclination: 82.5384 deg
RA of node: 114.6617 deg
Eccentricity: 0.0017926
Arg of perigee: 77.8342 deg
Mean anomaly: 282.4811 deg
Mean motion: 13.16962335 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 25517
Checksum: 319

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 93315.67695101
Element set: 409
Inclination: 99.1508 deg
RA of node: 294.5292 deg
Eccentricity: 0.0012515
Arg of perigee: 27.3413 deg
Mean anomaly: 332.8509 deg
Mean motion: 14.12931327 rev/day
Decay rate: 1.65e-06 rev/day^2
Epoch rev: 26450
Checksum: 291

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 93320.51300057
Element set: 212
Inclination: 82.5191 deg
RA of node: 313.4772 deg
Eccentricity: 0.0015680
Arg of perigee: 100.7230 deg
Mean anomaly: 259.5690 deg
Mean motion: 13.84349177 rev/day
Decay rate: 4.5e-07 rev/day^2
Epoch rev: 23826

Checksum: 288

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 93320.32104910
Element set: 913
Inclination: 82.5525 deg
RA of node: 57.5423 deg
Eccentricity: 0.0017403
Arg of perigee: 95.7518 deg
Mean anomaly: 264.5640 deg
Mean motion: 13.16021908 rev/day
Decay rate: 4.3e-07 rev/day²
Epoch rev: 19511
Checksum: 262

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 93320.64092393
Element set: 712
Inclination: 82.5491 deg
RA of node: 17.2997 deg
Eccentricity: 0.0016711
Arg of perigee: 28.5586 deg
Mean anomaly: 331.6512 deg
Mean motion: 13.84181803 rev/day
Decay rate: 1.5e-07 rev/day²
Epoch rev: 17121
Checksum: 291

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 93314.27490495
Element set: 816
Inclination: 98.8528 deg
RA of node: 336.2622 deg
Eccentricity: 0.0014224
Arg of perigee: 264.8255 deg
Mean anomaly: 95.1288 deg
Mean motion: 14.01329924 rev/day
Decay rate: 3.52e-06 rev/day²
Epoch rev: 16304
Checksum: 314

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 93320.47980517
Element set: 711

Inclination: 82.5249 deg
RA of node: 315.2181 deg
Eccentricity: 0.0011921
Arg of perigee: 288.0238 deg
Mean anomaly: 71.9627 deg
Mean motion: 13.83563968 rev/day
Decay rate: 5.2e-07 rev/day^2
Epoch rev: 15834
Checksum: 308

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 93320.51833216
Element set: 615
Inclination: 82.5409 deg
RA of node: 319.9466 deg
Eccentricity: 0.0013471
Arg of perigee: 2.5209 deg
Mean anomaly: 357.5653 deg
Mean motion: 13.16456371 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 12337
Checksum: 280

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 93315.68793624
Element set: 816
Inclination: 98.6427 deg
RA of node: 343.0215 deg
Eccentricity: 0.0013434
Arg of perigee: 143.1680 deg
Mean anomaly: 217.0407 deg
Mean motion: 14.22331177 rev/day
Decay rate: 1.76e-06 rev/day^2
Epoch rev: 12961
Checksum: 285

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 93320.38880675
Element set: 612
Inclination: 82.5551 deg
RA of node: 267.0163 deg
Eccentricity: 0.0014334
Arg of perigee: 12.2322 deg
Mean anomaly: 347.9178 deg
Mean motion: 13.16825934 rev/day

Decay rate: 4.3e-07 rev/day^2
Epoch rev: 10845
Checksum: 293

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 93320.66678128
Element set: 211
Inclination: 82.5521 deg
RA of node: 14.8526 deg
Eccentricity: 0.0023798
Arg of perigee: 100.3379 deg
Mean anomaly: 260.0455 deg
Mean motion: 13.82991168 rev/day
Decay rate: 3.3e-07 rev/day^2
Epoch rev: 1071
Checksum: 288

/EX

Date: Thu, 18 Nov 1993 13:55:08 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!emory!
kd4nc!ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Nov16.043632.12907@icaen.uiowa.edu>,
<1993Nov17.034311.24091@ke4zv.atl.ga.us>, <CGMqAI.2J0@news.Hawaii.Edu>
Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)
Subject : Re: Miss Manners in the Novice Sub-bands?

In article <CGMqAI.2J0@news.Hawaii.Edu> jherman@uhunix3.uhcc.Hawaii.Edu (Jeff
Herman) writes:
>In article <1993Nov17.034311.24091@ke4zv.atl.ga.us> gary@ke4zv.atl.ga.us (Gary
Coffman) writes:
>>purely mechanical talents such as Morse.
>>
>I tried to ignore this (really!) but I can't let this statement pass by
>unchallenged. If decoding Morse is purely mechanical then so is under-
>standing a spoken language. When I listen to Morse I hear entire words
>in the same way as when I listen to someone speak. Certainly one doesn't
>develope this ability without many, many months (or years) of practice.
>
>Many people, when they begin to learn a foreign language, might consider
>that they are undergoing a mechanical process; my first week in the
>Vietnamese language class I would hear: mo^.t hai ba bo^'n and have to
>mechanically translate mentally to English: one two three four. But

>after just a few weeks that mechanical process melted away to not
>having to do the translation into English. I heard and understood
>the Vietnamese.

>

>Gary, you have undoubtedly not passed to that point where you are
>able to understand Morse as a language. Thus, all your posts show
>a dislike for it but you try to hide this dislike behind a facade
>that code is outdated and irrelevant. But the rest of us who are
>fluent know better!

Ah, the old Morse is a language chestnut appears again. If Morse is a language, then so are ASCII and Baudot. All three are encodings of alphanumeric characters. In fact I can read ASCII or Baudot off of paper tape just as if they were regular alphabetic characters. That doesn't make either a language, any more than printed letters on a page are language. It's what they *spell* that can be language. They can also spell nonsense groups which isn't language either. Only when a structured grammar of nouns, verbs, and modifiers is assembled do we have something called language.

Now as to the mechanical nature of decoding Morse encodings, in a skilled operator the process is a pure conditioned reflex brought on by extensive operant conditioning of pattern recognizing neural nets in the brain. This is a purely mechanistic process, no intelligence is required to intervene in the decoding process. To understand the English, or other, natural *language* spelled by the Morse encodings does require more general purpose pattern recognition and association processes in the brain that aren't reflexive. Instead they require conscious intervention to bring comprehension to the process.

This is similar to touch typing. The process of translating words to finger motions is a pure mechanistic result of operant conditioning. I just think what I want to say and the mechanism puts it on the screen without conscious intervention. It's a pure mechanism, just like manual Morse.

A similar process occurs with spoken natural language. Humans come wired from the factory with the ability to detect and decode certain sound patterns called phonemes. A very young child's babbling is almost pure phoneme generation with no coordination into natural language constructs. It's a mechanistic process without intelligent guidance. The intelligence comes into play in stringing together the phonemes, similar in concept to Morse characters, into coherent natural language constructs.

People are sometimes confused about the language status of Morse because they decode it's elements in much the same way as the phonetic elements of spoken language are decoded. But that's a

fundamental confusion of mechanisms with content. Language isn't mechanism, it's the structured content represented by the mechanistic elements. If we were still decoding Morse by sight, as Samuel Morse intended it to be decoded, this confusion wouldn't be so prevalent. Few people confuse the marks we make on paper, and electronic screens, called alphabet, with language. That's because we had to consciously acquire the conversion mechanisms through the visual mechanism rather than develop them unconsciously from birth via the aural mechanism. The visual pattern recognition mechanisms are about 10,000 times more complex and capable than the aural mechanisms, which is why new patterns are easier to learn in a visual medium than in the aural domain.

Gary

--

Gary Coffman KE4ZV	If you wanna run cool,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	you gotta run on heavy,	uunet!rsiatl!ke4zv!gary
534 Shannon Way	heavy fuel.	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Mark Knoffler	

End of Info-Hams Digest V93 #1373

